



SEQUENCE LISTING

<110> Danks, Mary K.  
Potter, Philip M.  
Houghton, Peter J.

<120> Compositions and Methods for Sensitizing and Inhibiting Growth of  
Human Tumor Cells

<130> SJ-0005

<140> 09/595,682A

<141> 2000-06-16

<150> 60/075,258

<151> 1998-02-19

<150> PCT/US99/03171

<151> 1999-02-12

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<170> PatentIn Ver. 2.0

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Gly Lys Phe Val Ser Xaa Glu Gly Phe Ala Gln Pro Val Ala Lys Phe

20 25 30

Xaa Gly

<210> 2

<211> 36

<212> PRT

<213> Oryctolagus cuniculus

<400> 2

His Pro Ser Ala Pro Pro Val Val Asp Thr Val Lys Gly Lys Val Leu

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Gly Lys Phe Val Ser Leu Glu Gly Phe Ala Gln Pro Val Ala Val Phe

20 25 30

Leu Gly Val Pro

35

<210> 3

Bent

<211> 54

<212> PRT

<213> Homo sapiens

<400> 3

Met Trp Leu Arg Ala Phe Ile Leu Ala Thr Leu Ser Ala Ser Ala Ala

1 5 10 15

Trp Gly His Pro Ser Ser Pro Pro Val Val Asp Thr Val His Gly Lys

20 25 30

Val Leu Gly Lys Phe Val Ser Leu Glu Gly Phe Ala Gln Pro Val Ala

35 40 45

Ile Phe Leu Gly Ile Pro

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<211> 54

<212> PRT

<213> Rattus sp.

<400> 4

Met Trp Leu Cys Ala Leu Val Trp Ala Ser Leu Ala Val Cys Pro Ile

1 5 10 15

Trp Gly His Pro Ser Ser Pro Pro Val Val Asp Thr Thr Lys Gly Lys

20 25 30

Bent

Val Leu Gly Lys Tyr Val Ser Leu Glu Gly Phe Thr Gln Pro Val Ala  
35 40 45

Val Phe Leu Gly Val Pro  
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<210> 5

<211> 54

<212> PRT

<213> Mus musculus

<400> 5

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Met Trp Leu His Ala Leu Val Trp Ala Ser Leu Ala Val Cys Pro Ile  
1 5 10 15

Leu Gly His Ser Leu Leu Pro Pro Val Val Asp Thr Thr Gln Gly Lys  
20 25 30

Val Leu Gly Lys Tyr Ile Ser Leu Glu Gly Phe Glu Gln Pro Val Ala  
35 40 45

Val Phe Leu Gly Val Pro  
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<210> 6

<211> 5

<212> PRT

<213> Oryctolagus cuniculus

<400> 6

His Pro Ser Ala Pro

1

5

<210> 7

<211> 14

<212> DNA

<213> Oryctolagus cuniculus

<400> 7

cacccaagcg cacc

14

B<sup>1</sup> cont

<210> 8

<211> 14

<212> DNA

<213> Artificial Sequence

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cacccnagcg cncc

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<221> unsure

<222> (12)

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cacccnteng cncc

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<211> 7

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<213> Oryctolagus cuniculus

<400> 10

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Ala Phe Trp Thr Glu Leu Trp

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<212> DNA

<213> Oryctolagus cuniculus

<400> 11

gcattctgga cagaactatg g

21

<210> 12

<211> 21

<212> DNA

<213> Oryctolagus cuniculus

<400> 12

ccaaagttca gtccagaaag c

21

<210> 13

<211> 21

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B' cont



<210> 15

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<213> Oryctolagus cuniculus

<400> 15

Met Trp Leu Cys Ala Leu Ala Leu Ala Ser Leu Ala Ala Cys Thr Ala

1

5

10

15

Trp Gly His Pro Ser Ala Pro Pro Val Val Asp Thr Val Lys

20

25

30

<210> 16

<211> 30

<212> PRT

<213> Rattus sp.

<400> 16

Met Trp Leu Cys Ala Leu Val Trp Ala Ser Leu Ala Val Cys Pro Ile

1

5

10

15

Trp Gly His Pro Ser Ser Pro Pro Val Val Asp Thr Thr Lys

20

25

30

<210> 17

<211> 30

<212> PRT

<213> Homo sapiens

<400> 17

Met Trp Leu Arg Ala Phe Ile Leu Ala Thr Leu Ser Ala Ser Ala Ala

1 5 10 15

Trp Gly His Pro Ser Ser Pro Pro Val Val Asp Thr Val His

20 25 30

<210> 18

<211> 30

<212> PRT

<213> Rattus sp.

<400> 18

Met Arg Leu Tyr Pro Leu Val Trp Leu Phe Leu Ala Ala Cys Thr Ala

1 5 10 15

Trp Gly Tyr Pro Ser Ser Pro Pro Val Val Asn Thr Val Lys

20 25 30

<210> 19

<211> 30

<212> PRT

<213> Mus musculus

<400> 19

Met Trp Leu His Ala Leu Val Trp Ala Ser Leu Ala Val Cys Pro Ile

1 5 10 15

1  
Bent

Leu Gly His Ser Leu Leu Pro Pro Val Val Asp Thr Thr Gln

20

25

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<212> DNA

<213> *Oryctolagus cuniculus*

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1500

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<210> 21

<211> 565

<212> PRT

<213> Oryctolagus cuniculus

<400> 21

Met Trp Leu Cys Ala Leu Ala Leu Ala Ser Leu Ala Ala Cys Thr Ala

1 5 10 15

Trp Gly His Pro Ser Ala Pro Pro Val Val Asp Thr Val His Gly Lys

20 25 30

Val Leu Gly Lys Phe Val Ser Leu Glu Gly Phe Ala Gln Pro Val Ala

35 40 45

Val Phe Leu Gly Val Pro Phe Ala Lys Pro Pro Leu Gly Ser Leu Arg

50 55 60

Phe Ala Pro Pro Gln Pro Ala Glu Ser Trp Ser His Val Lys Asn Thr

65 70 75 80

Bant

Thr Ser Tyr Pro Pro Met Cys Ser Gln Asp Ala Val Ser Gly His Met  
85 90 95

Leu Ser Glu Leu Phe Thr Asn Arg Lys Glu Asn Ile Pro Leu Lys Phe  
100 105 110

Ser Glu Asp Cys Leu Tyr Leu Asn Ile Tyr Thr Pro Ala Asp Leu Thr  
115 120 125

Lys Arg Gly Arg Leu Pro Val Met Val Trp Ile His Gly Gly Gly Leu  
130 135 140

Met Val Gly Gly Ala Ser Thr Tyr Asp Gly Leu Ala Leu Ser Ala His  
145 150 155 160

Glu Asn Val Val Val Val Thr Ile Gln Tyr Arg Leu Gly Ile Trp Gly  
165 170 175

Phe Phe Ser Thr Gly Asp Glu His Ser Arg Gly Asn Trp Gly His Leu  
180 185 190

Asp Gln Val Ala Ala Leu Arg Trp Val Gln Asp Asn Ile Ala Asn Phe  
195 200 205

Gly Gly Asp Pro Gly Ser Val Thr Ile Phe Gly Glu Ser Ala Gly Gly  
210 215 220

Gln Ser Val Ser Ile Leu Leu Leu Ser Pro Leu Thr Lys Asn Leu Phe  
225 230 235 240

His Arg Ala Ile Ser Glu Ser Gly Val Ala Leu Leu Ser Ser Leu Phe

245

250

255

Arg Lys Asn Thr Lys Ser Leu Ala Glu Lys Ile Ala Ile Glu Ala Gly

260

265

270

Cys Lys Thr Thr Thr Ser Ala Val Met Val His Cys Leu Arg Gln Lys

275

280

285

Thr Glu Glu Glu Leu Met Glu Val Thr Leu Lys Met Lys Phe Met Ala

290

295

300

Leu Asp Leu Val Gly Asp Pro Lys Glu Asn Thr Ala Phe Leu Thr Thr

305

310

315

320

Val Ile Asp Gly Val Leu Leu Pro Lys Ala Pro Ala Glu Ile Leu Ala

325

330

335

Glu Lys Lys Tyr Asn Met Leu Pro Tyr Met Val Gly Ile Asn Gln Gln

340

345

350

Glu Phe Gly Trp Ile Ile Pro Met Gln Met Leu Gly Tyr Pro Leu Ser

355

360

365

Glu Gly Lys Leu Asp Gln Lys Thr Ala Thr Glu Leu Leu Trp Lys Ser

370

375

380

Tyr Pro Ile Val Asn Val Ser Lys Glu Leu Thr Pro Val Ala Thr Glu

385

390

395

400

Best

Lys Tyr Leu Gly Gly Thr Asp Asp Pro Val Lys Lys Lys Asp Leu Phe  
405 410 415

Leu Asp Met Leu Ala Asp Leu Leu Phe Gly Val Pro Ser Val Asn Val  
420 425 430

Ala Arg His His Arg Asp Ala Gly Ala Pro Thr Tyr Met Tyr Glu Tyr  
435 440 445

Arg Tyr Arg Pro Ser Phe Ser Ser Asp Met Arg Pro Lys Thr Val Ile  
450 455 460

Gly Asp His Gly Asp Glu Ile Phe Ser Val Leu Gly Ala Pro Phe Leu  
465 470 475 480

Lys Glu Gly Ala Thr Glu Glu Glu Ile Lys Leu Ser Lys Met Val Met  
485 490 495

Lys Tyr Trp Ala Asn Phe Ala Arg Asn Gly Asn Pro Asn Gly Glu Gly  
500 505 510

Leu Pro Gln Trp Pro Ala Tyr Asp Tyr Lys Glu Gly Tyr Leu Gln Ile  
515 520 525

Gly Ala Thr Thr Gln Ala Ala Gln Lys Leu Lys Asp Lys Glu Val Ala  
530 535 540

Phe Trp Thr Glu Leu Trp Ala Lys Glu Ala Ala Arg Pro Arg Glu Thr  
545 550 555 560

B<sup>1</sup>  
Bant

Glu His Ile Glu Leu

565

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<211> 6

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic

<400> 22

cacgtg

6

<210> 23

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<212> DNA

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<223> Description of Artificial Sequence: Synthetic

<400> 23

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26

<210> 24

<211> 27

<212> DNA

<213> Artificial Sequence

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<220>

<223> Description of Artificial Sequence: Synthetic

<400> 24

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27

<210> 25

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<212> DNA

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<223> Description of Artificial Sequence: Synthetic

<400> 25

cacctg

6

<210> 26

<211> 543

<212> PRT

<213> Oryctolagus cuniculus

<400> 26

Met Trp Leu Cys Ala Leu Ala Leu Ala Ser Leu Ala Ala Cys Thr Ala

1

5

10

15

Trp Gly His Pro Ser Ala Pro Pro Val Val Asp Thr Val His Gly Lys

20

25

30

Val Leu Gly Lys Phe Val Ser Leu Glu Gly Phe Ala Gln Pro Val Ala

Bent

35

40

45

Val Phe Leu Gly Val Pro Phe Ala Lys Pro Pro Leu Gly Ser Leu Arg

50

55

60

Phe Ala Pro Pro Gln Pro Ala Glu Ser Trp Ser His Val Lys Asn Thr

65

70

75

80

Thr Ser Tyr Pro Pro Met Cys Ser Gln Asp Ala Val Ser Gly His Met

85

90

95

Leu Ser Glu Leu Phe Thr Asn Arg Lys Glu Asn Ile Pro Leu Lys Phe

100

105

110

Ser Glu Asp Cys Leu Tyr Leu Asn Ile Tyr Thr Pro Ala Asp Leu Thr

115

120

125

Lys Arg Gly Arg Leu Pro Val Met Val Trp Ile His Gly Gly Gly Leu

130

135

140

Met Val Gly Gly Ala Ser Thr Tyr Asp Gly Leu Ala Leu Ser Ala His

145

150

155

160

Glu Asn Val Val Val Val Thr Ile Gln Tyr Arg Leu Gly Ile Trp Gly

165

170

175

Phe Phe Ser Thr Gly Asp Glu His Ser Arg Gly Asn Trp Gly His Leu

180

185

190

Asp Gln Val Ala Ala Leu Arg Trp Val Gln Asp Asn Ile Ala Asn Phe

195

200

205

Bant

Gly Gly Asp Pro Gly Ser Val Thr Ile Phe Gly Glu Ser Ala Gly Gly  
210 215 220

Gln Ser Val Ser Ile Leu Leu Leu Ser Pro Leu Thr Lys Asn Leu Phe  
225 230 235 240

His Arg Ala Ile Ser Glu Ser Gly Val Ala Leu Leu Ser Ser Leu Phe  
245 250 255

Arg Lys Asn Thr Lys Ser Leu Ala Glu Lys Ile Ala Ile Glu Ala Gly  
260 265 270

Cys Lys Thr Thr Thr Ser Ala Val Met Val His Cys Leu Arg Gln Lys  
275 280 285

Thr Glu Glu Glu Leu Met Glu Val Thr Leu Lys Met Lys Phe Met Ala  
290 295 300

Leu Asp Leu Val Gly Asp Pro Lys Glu Asn Thr Ala Phe Leu Thr Thr  
305 310 315 320

Val Ile Asp Gly Val Leu Leu Pro Lys Ala Pro Ala Glu Ile Leu Ala  
325 330 335

Glu Lys Lys Tyr Asn Met Leu Pro Tyr Met Val Gly Ile Asn Gln Gln  
340 345 350

Glu Phe Gly Trp Ile Ile Pro Met Gln Met Leu Gly Tyr Pro Leu Ser  
355 360 365

B cont

Glu Gly Lys Leu Asp Gln Lys Thr Ala Thr Glu Leu Leu Trp Lys Ser  
370 375 380

Tyr Pro Ile Val Asn Val Ser Lys Glu Leu Thr Pro Val Ala Thr Glu  
385 390 395 400

Lys Tyr Leu Gly Gly Thr Asp Asp Pro Val Lys Lys Lys Asp Leu Phe  
405 410 415

Leu Asp Met Leu Ala Asp Leu Leu Phe Gly Val Pro Ser Val Asn Val  
420 425 430

Ala Arg His His Arg Asp Ala Gly Ala Pro Thr Tyr Met Tyr Glu Tyr  
435 440 445

Arg Tyr Arg Pro Ser Phe Ser Ser Asp Met Arg Pro Lys Thr Val Ile  
450 455 460

Gly Asp His Gly Asp Glu Ile Phe Ser Val Leu Gly Ala Pro Phe Leu  
465 470 475 480

Lys Glu Gly Ala Thr Glu Glu Glu Ile Lys Leu Ser Lys Met Val Met  
485 490 495

Lys Tyr Trp Ala Asn Phe Ala Arg Asn Gly Asn Pro Asn Gly Glu Gly  
500 505 510

Leu Pro Gln Trp Pro Ala Tyr Asp Tyr Lys Glu Gly Tyr Leu Gln Ile  
515 520 525

Gly Ala Thr Thr Gln Ala Ala Gln Lys Leu Lys Asp Lys Glu Val

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535

540

<210> 27

<211> 2191

<212> DNA

<213> Homo sapiens

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Bent

atgttaacgc tgctgatggt gcctcctaca tttggtgacc tgctgagggg ggagtacatt 1260  
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<211> 559

<212> PRT

<213> Homo sapiens

<400> 28

Met Arg Leu His Arg Leu Arg Ala Arg Leu Ser Ala Val Ala Cys Gly

1

5

10

15

Leu Leu Leu Leu Leu Val Arg Gly Gln Gly Gln Asp Ser Ala Ser Pro

20

25

30

Ile Arg Thr Thr His Thr Gly Gln Val Leu Gly Ser Leu Val His Val

35

40

45

Lys Gly Ala Asn Ala Gly Val Gln Thr Phe Leu Gly Ile Pro Phe Ala

50

55

60

Lys Pro Pro Leu Gly Pro Leu Arg Phe Ala Pro Pro Glu Pro Pro Glu

65

70

75

80

Ser Trp Ser Gly Val Arg Asp Gly Thr Thr His Pro Ala Met Cys Leu

85

90

95

Gln Asp Leu Thr Ala Val Glu Ser Glu Phe Leu Ser Gln Phe Asn Met

100

105

110

Thr Phe Pro Ser Asp Ser Met Ser Glu Asp Cys Leu Tyr Leu Ser Ile

115

120

125

Tyr Thr Pro Ala His Ser His Glu Gly Ser Asn Leu Pro Val Met Val

130

135

140

Trp Ile His Gly Gly Ala Leu Val Phe Gly Met Ala Ser Leu Tyr Asp

145

150

155

160

Gly Ser Met Leu Ala Ala Leu Glu Asn Val Val Val Val Ile Ile Gln

165

170

175

Tyr Arg Leu Gly Val Leu Gly Phe Phe Ser Thr Gly Asp Lys His Ala

180

185

190

Thr Gly Asn Trp Gly Tyr Leu Asp Gln Val Ala Ala Leu Arg Trp Val

*B cont*

195

200

205

Gln Gln Asn Ile Ala His Phe Gly Gly Asn Pro Asp Arg Val Thr Ile

210

215

220

Phe Gly Glu Ser Ala Gly Gly Thr Ser Val Ser Ser Leu Val Val Ser

225

230

235

240

Pro Ile Ser Gln Gly Leu Phe His Gly Ala Ile Met Glu Ser Gly Val

245

250

255

Ala Leu Leu Pro Gly Leu Ile Ala Ser Ser Ala Asp Val Ile Ser Thr

260

265

270

Val Val Ala Asn Leu Ser Ala Cys Asp Gln Val Asp Ser Glu Ala Leu

275

280

285

Val Gly Cys Leu Arg Gly Lys Ser Lys Glu Glu Ile Leu Ala Ile Asn

290

295

300

Lys Pro Phe Lys Met Ile Pro Gly Val Val Asp Gly Val Phe Leu Pro

305

310

315

320

Arg His Pro Gln Glu Leu Leu Ala Ser Ala Asp Phe Gln Pro Val Pro

325

330

335

Ser Ile Val Gly Val Asn Asn Asn Glu Phe Gly Trp Leu Ile Pro Lys

340

345

350

Val Met Arg Ile Tyr Asp Thr Gln Lys Glu Met Asp Arg Glu Ala Ser

355

360

365

*Bar*



Gln Ala Ala Leu Gln Lys Met Leu Thr Leu Leu Met Leu Pro Pro Thr

370

375

380

Phe Gly Asp Leu Leu Arg Glu Glu Tyr Ile Gly Asp Asn Gly Asp Pro

385

390

395

400

Gln Thr Leu Gln Ala Gln Phe Gln Glu Met Met Ala Asp Ser Met Phe

405

410

415

Val Ile Pro Ala Leu Gln Val Ala His Phe Gln Cys Ser Arg Ala Pro

420

425

430

Val Tyr Phe Tyr Glu Phe Gln His Gln Pro Ser Trp Leu Lys Asn Ile

435

440

445

Arg Pro Pro His Met Lys Ala Asp His Gly Asp Glu Leu Pro Phe Val

450

455

460

Phe Arg Ser Phe Phe Gly Gly Asn Tyr Ile Lys Phe Thr Glu Glu Glu

465

470

475

480

Glu Gln Leu Ser Arg Lys Met Met Lys Tyr Trp Ala Asn Phe Ala Arg

485

490

495

Asn Gly Asn Pro Asn Gly Glu Gly Leu Pro His Trp Pro Leu Phe Asp

500

505

510

Gln Glu Glu Gln Tyr Leu Gln Leu Asn Leu Gln Pro Ala Val Gly Arg

515

520

525

*Bank*

Ala Leu Lys Ala His Arg Leu Gln Phe Trp Lys Lys Ala Leu Pro Gln

530

535

540

Lys Ile Gln Glu Leu Glu Glu Pro Glu Glu Arg His Thr Glu Leu

545

550

555

<210> 29

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

*Bar* <400> 29

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31

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<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

<400> 30

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31

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